

REMARKS UNDER 37 C.F.R. 1.111

Reconsideration and allowance of all claims is requested.

The applicant would appreciate it if the examiner would reconsider and remove the restriction requirement.

In the restriction, the examiner did not consider "as claimed" in restricting claim Groups II and I.

The examiner stated a conclusion but did not consider that both claims 1 (I) and 17 (II), for example, were for making a preform in a chamber and not for powder coating a metal part as suggested by the examiner in the last full paragraph on page 2 of the office action.

The examiner made a conclusion but did not consider "as claimed" in separating, for example, claim 103 (III) from claim 102 (II) from which claim 103 depends.

The examiner's discussion of a metal engine part does not relate to the preforms "as claimed".

The examples provided by the examiner are not "as claimed". The examiner has not made a prima facie case of distinctiveness and has not made a prima facie case of undue burden.

The number of claims in itself does not establish undue burden, nor does the listing of subclasses which are not related to the claims.

Consideration of all claims is requested.

Formal objections to the claims have been overcome by amendments to claims 65, 82 and 89. Vitrifying is used in its ordinary meaning of heat fusing.

Claim 65 and its dependent claims distinguish the invention and would not have been obvious from Abe by pointing out supporting a substrate in a chamber. Abe has no chamber and does not support a substrate in a chamber. Abe's microwave cavity is not a chamber. Abe's microwave cavity heats the gas within the tube to a plasma, but does not heat the substrate to a deposition temperature as in the present invention. Abe has no directing of particles to the substrate as in claim 65.

Nothing in Abe would have made obvious the invention as claimed in claim 65.

Abe would not have suggested the features of claims 66 and 67 of forming a porous body and collecting particles on the porous body and 0-90% solid glass density in the particles. In Abe there is no chamber as required by claim 73, and there is no heating of the substrate as required by claims 78 and 79 and no controlling solid glass density by controlling temperature of the substrate as in claim 80.

Abe has no heating within the substrate to heat the substrate and external heaters in a chamber heating the preform as required by claim 81 or controlling pore size and pore density of the preform for controlling radial gradient of doping as required by claim 82.

Abe has no increasing heating as required by claim 84 and no stopping depositing and increasing heating as required by claim 86.

Abe has none of the several steps in claim 89 and has no reducing pressure in a chamber before increasing heating as required in claim 90.

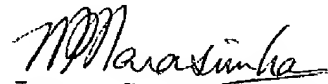
None of those features missing in Abe would have been suggested by Abe. Claims 65-67, 73, 78-82, 84, 86 and 89-90 are allowable.

The applicant traverses a holding of obviousness without citing art.

#### CONCLUSION

Reconsideration and allowance of all claims are respectfully requested.

Respectfully,



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